230
249.3
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433,575 COMPLETE SPECIFICATION

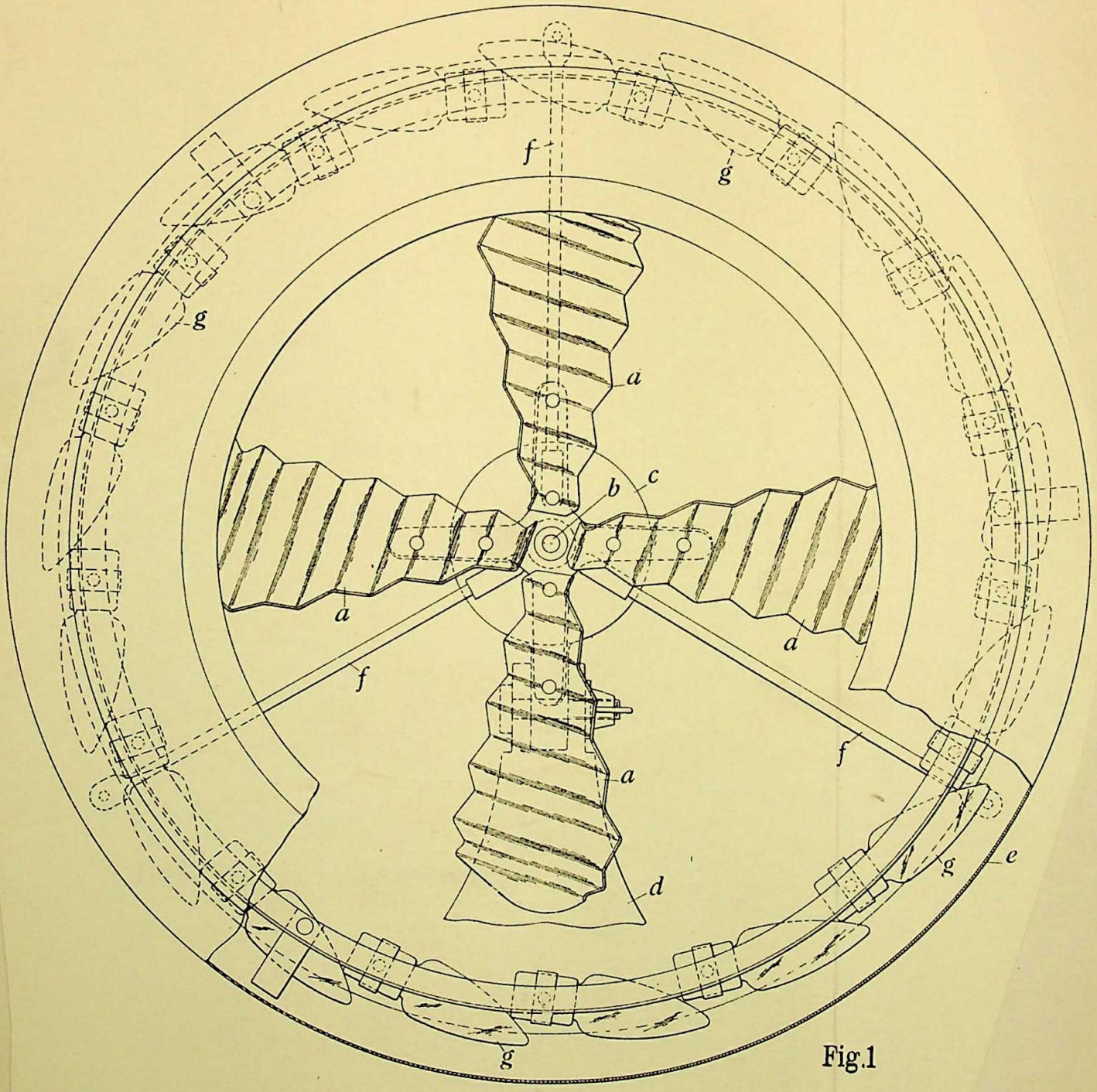

Fig.1

433-575

2 SHEETS
SHEET 2

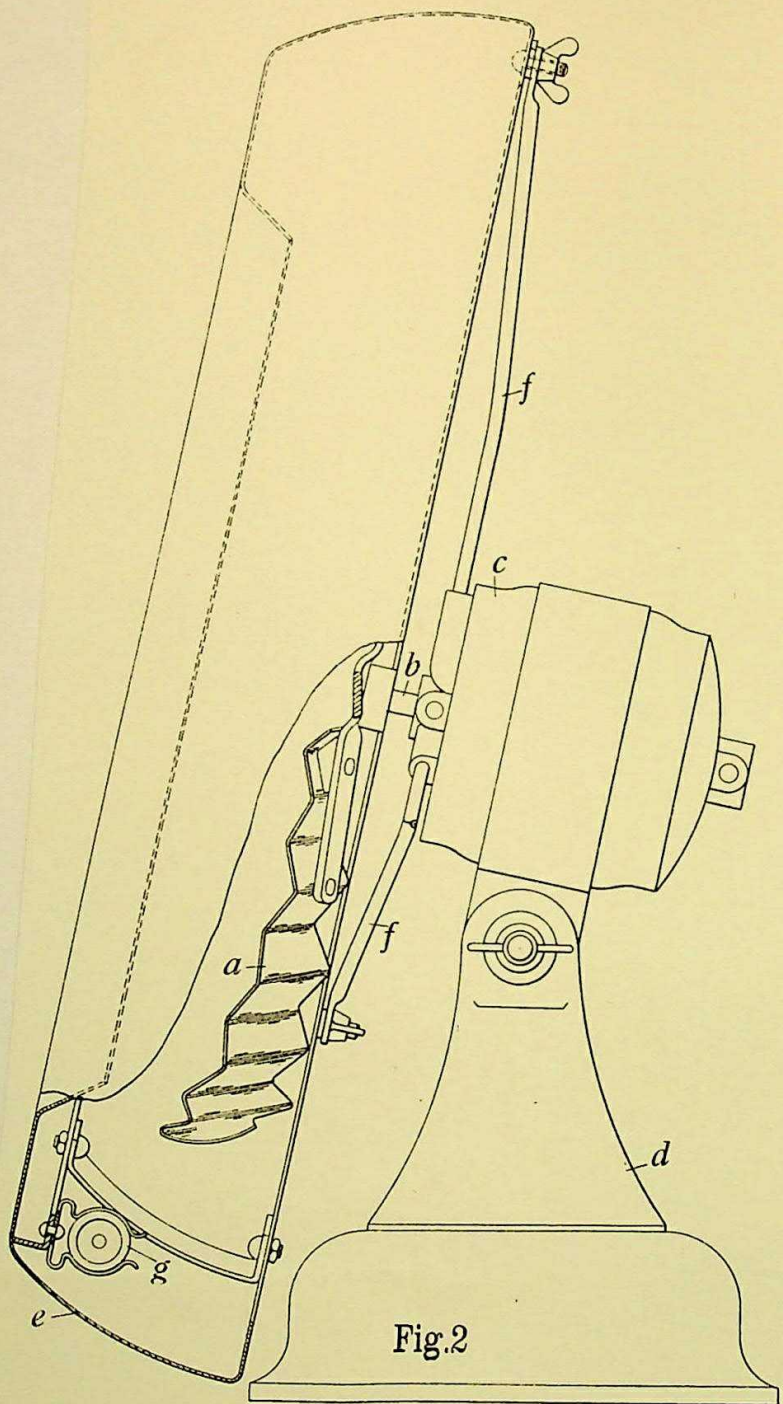

Fig.2

Malby & Sons, Lith.

PATENT SPECIFICATION

Application Date: July 26, 1934. No. 21860/34.

Complete Specification Left: May 2, 1935.

Complete Specification Accepted: Aug. 16, 1935.

433,575

EXAMINER'S COPY

Div.

PROVISIONAL SPECIFICATION

Improvements relating to Ventilating Fans

We, JOHN SATCHWELL & COMPANY LIMITED, a Company duly incorporated under the Laws of Great Britain, of 1, Station Street, in the City of Birmingham, and WILLIAM HARDY HIPKISS, a British Subject, of the Company's address, do hereby declare the nature of this invention to be as follows:—

This invention relates to electrically driven rotary ventilating fans, and has for its object to enable such fans to be made readily visible when in motion in a darkened room, such as a theatre, or to form an attractive feature when used in a shop window or on a counter.

The invention comprises the combination with the fan structure, of an electric lamp or lamps so arranged as to illuminate the fan blades.

In one manner of carrying the invention into effect we combine one or more plain or coloured lamps with the stand, or the body part of the motor, or with the blades themselves. And we may arrange one or more reflectors at suitable parts of the fan structure to enhance the effect of the light or lights. Also the latter are preferably such that they are only in action when the fan is working, being controlled by the same switch as the fan.

By arranging the lights to give direct or indirect illumination of the moving blades we are able to produce pleasing optical effects which serve to indicate to, for example, an audience in, for example, a theatre or other darkened room that the fan is working, or to attract attention when the fan is used in, for example, a shop or other place of public concourse.

Dated this 25th day of July, 1934.

MARKS & CLERK.

COMPLETE SPECIFICATION

Improvements relating to Ventilating Fans

We, JOHN SATCHWELL & COMPANY LIMITED, a Company duly incorporated under the Laws of Great Britain, of 1, Station Street, in the City of Birmingham, and WILLIAM HARDY HIPKISS, a British Subject, of the Company's address, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to electrically driven rotary ventilating fans, and has for its object to enable such fans to be made readily visible when in motion in a darkened room, such as a theatre, or to form an attractive feature when used in a shop window or on a counter.

The invention comprises the combination with the fan structure, of a concealed electric lamp or lamps so arranged as to illuminate the fan blades.

In the two accompanying sheets of explanatory drawings:—

Figure 1 is a front elevation with part in section, and Figure 2 a side elevation with part in section, of a fan constructed in accordance with this invention.

In carrying the invention into effect in the manner shown, we employ a fan comprising a plurality of radial blades *a* carried on a spindle *b* which is driven by an electric motor *c*, the latter being supported on any convenient stand *d*. Preferably the blades are corrugated transversely and are polished to enhance their light reflecting property.

At the front of and around the fan there is mounted an annular sheet metal shield *e*. This is carried on the body of the motor by arms *f*, and within the shield are arranged a plurality of small electric lamp bulbs *g*. These are preferably made of different colours, and are so mounted as to illuminate the front surfaces of the fan blades. The lamp circuits may be controlled by the same switch as the fan or by a separate switch.

In the example shown in the drawings, the front of the shield may be perforated to form an advertising announcement, and behind the perforations there is mounted a translucent screen (which may be of different colours), so that the perforations are also illuminated by the lamps.

[*Price* 1/-]

The invention is not limited to the example above described, as subordinate details can be varied to suit different requirements. By arranging the lights to give direct or indirect illumination of the fronts of the moving blades we are able to produce pleasing optical effects which serve to indicate to an audience in, for example, a theatre or other darkened room that the fan is working, or to attract attention when the fan is used as an advertising device in a shop or other like place.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. In ventilating fans, the combination with the fan structure, of a concealed electric lamp or lamps so arranged as to illuminate the fan blades, substantially as described.

2. In ventilating fans, the combination of a fan having a plurality of blades, an annular shield arranged in front and around the fan, and an electric lamp or lamps mounted behind the shield and adapted to illuminate the front of the fan blades, substantially as described.

3. A ventilating fan as claimed in Claims 1 and 2, having radial blades which are corrugated transversely, substantially as described.

4. A ventilating fan as claimed in Claim 2, in which the front of the annular shield is adapted to form an advertising device which is illuminated by the lamps, substantially as described.

5. In ventilating fans, the combination of a fan having a plurality of radial vanes, an electric motor for driving the fan, a support for the motor, an annular shield arranged in front of and around the fan and carried by the motor, and a plurality of electric lamps situated within the shield and adapted to illuminate the front of the fan blades, substantially as described.

6. A ventilating fan as claimed in Claim 1, and comprising the combination and arrangement of parts, substantially as described and as illustrated in the accompanying drawings.

Dated this 18th day of April, 1935.

MARKS & CLERK.

Leamington Spa: Printed for His Majesty's Stationery Office, by the Courier Press.—1935.